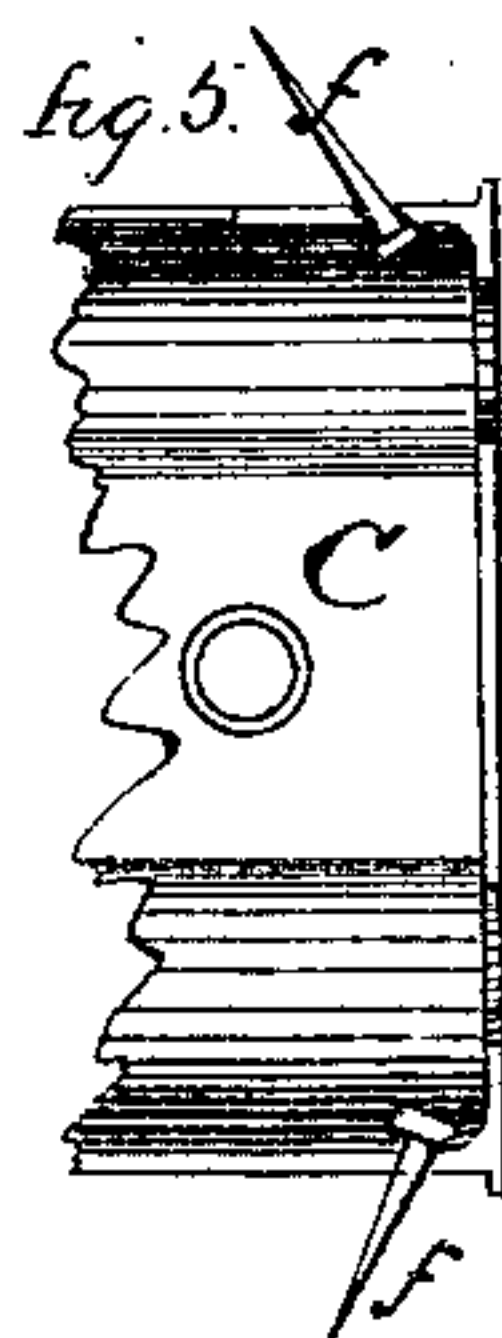
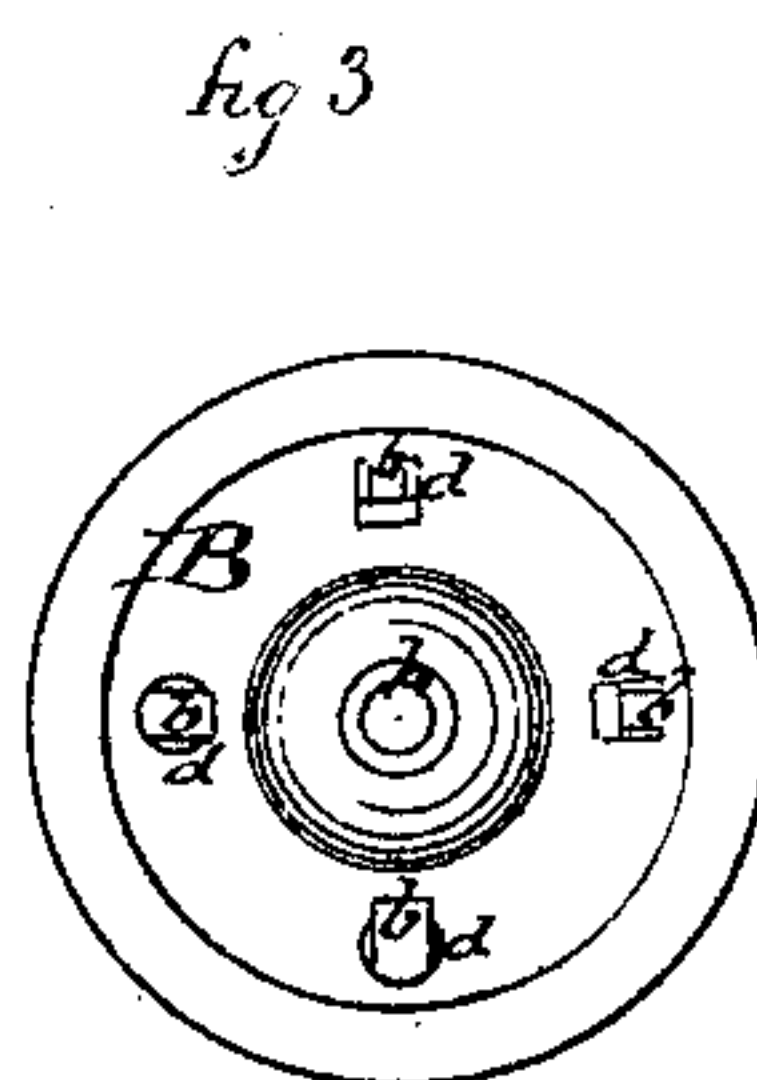
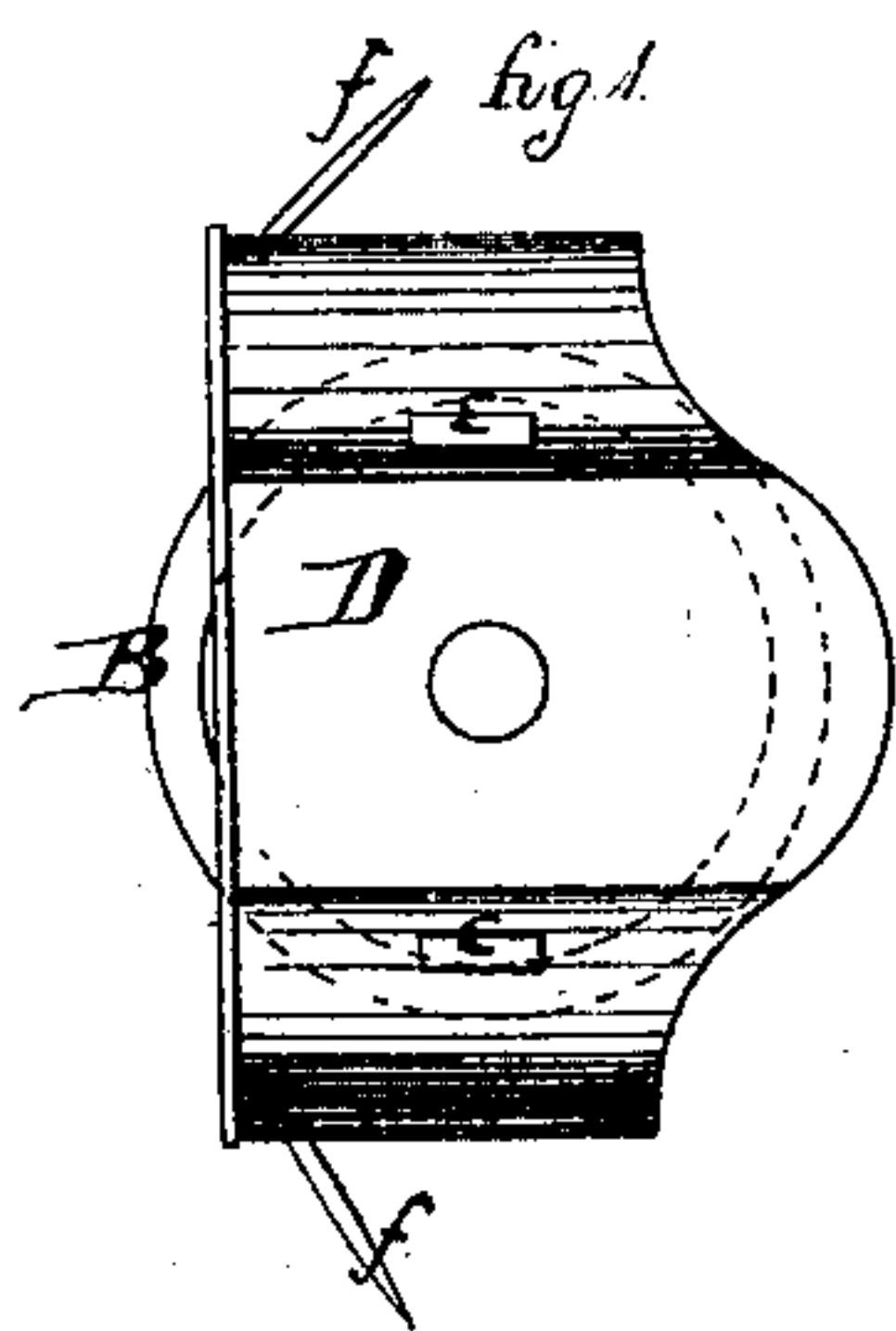


JOHN J. COWELL.
Improvement in Pulleys.

No. 126,524.

Patented May 7, 1872.



Witnesses:

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UNITED STATES PATENT OFFICE.

JOHN J. COWELL, OF NEWARK, NEW JERSEY.

IMPROVEMENT IN PULLEYS.

Specification forming part of Letters Patent No. 126,524, dated May 7, 1872.

To all whom it may concern:

Be it known that I, JOHN J. COWELL, of Newark, in the county of Essex and in the State of New Jersey, have invented certain new and useful Improvements in Pulleys; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in a rope or cord pulley made in two pieces, struck up from sheet metal, and joined together, as will be hereinafter more fully set forth. It also consists in the construction of a cast frame to be used with said sheet-metal pulley.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side view of the entire frame and pulley. Fig. 2 is a front view of the same. Fig. 3 is a side view of the pulley. Fig. 4 is a longitudinal section of the same; and Fig. 5 is an interior view of a part of the frame.

The pulley is made in two pieces, A and B, struck up of sheet metal in suitable form, so that when placed side by side they shall form the usual groove *a* around the circumference of the pulley. Each part of the pulley has tongues *b b* cut out, or rather struck out, with the dies forming the pieces, said tongues passing through holes or slots *d d* formed in the same manner in the other part, and then bent or clinched so as to fasten the two parts firmly together. The two parts A B may be fastened by rivets, bolts, &c., according to the amount of strain the pulley is intended to be subjected to. The frame is also made in two

pieces, C and D, cast from patterns—one provided with lugs, the other with notches, at the ends for binding the two parts together. On the outer sides of the frame are wedge-shaped projections *e e* to fasten in the wood, and in the ends of the frame are slanting holes for the passage of nails *f f* in an inclined position to firmly fasten in the wood. In the sides of the frame are holes for the passage of the spindle, upon which the pulley revolves. Through the pulley passes a thimble, *h*, which is also struck out from sheet metal, and after insertion it is fastened in place at the same time and with the same motion which fastens the two sides of the pulley. A cast axle may be used in place of the thimble, or the sections of the pulley may be struck out so as to form the thimble.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. As an article of manufacture, the within-described pulley, composed of two pieces of sheet metal, A B, struck up to the required form, and having projecting tongues *b b* and holes *d d* for clinching the parts together, and a central thimble, *h*, all constructed substantially as set forth.

2. The combination of the struck-up sheet-metal sections A B, connected together, as described, with the cast-iron pulley-box C D, also made in two parts, all as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand this 2d day of December, 1871.

JNO. J. COWELL.

Witnesses:

JNO. O. GOODRICH,
ROBT. N. WAITE.